

### IN THE CLAIMS

Claim 1 (currently amended): A method for cleaning one or more surfaces of an object, the method comprising:

placing an object to be cleaned on a conveyor comprising at least two belts, wherein the object includes a front surface, a back surface, a first lateral edge and a second lateral edge, so that a first of the two belts is in frictional contact with a portion of the front surface of the object and a second of the two belts is in frictional contact with a portion of the back surface of the object while simultaneously exposing at least a portion of the first lateral edge and the second lateral edge for cleaning;

spraying a liquid through at least one jet onto at least one surface of at least one object to be cleaned; and

insonifying the liquid, with a focusing acoustic transducer, as it is being sprayed, producing longitudinal and shear waves which propagate into the object itself with an acoustic power divided by an area (acoustic power/area), which is a function of an amount of electric power applied to the focusing acoustic transducer at a given frequency to result in the liquid with an insonified power density ~~of at least 5 kW/cm<sup>2</sup>~~ without substantial cavitation occurring on a surface of an object being cleaned.

Claim 2 (cancelled)

Claim 3 (currently amended): The method according to claim 1, wherein the liquid being sprayed is insonified at a frequency ~~greater than or equal to~~ 1 MHz.

Claim 4 (currently amended): The method according to claim 1, wherein the liquid being sprayed is insonified at a frequency ~~greater than or equal to~~ 1 MHz.

Claim 5 (original): The method according to claim 1, further comprises:

moving the object in a direction substantially opposite relative to a direction of the spray so as that any particulates cleaned from the at least one surface are cleaned in a direction opposite the direction in which the object is moving.

Claim 6 (original): The method according to claim 1, further comprises:

moving the jet in a direction substantially opposite to a direction of the spray so as that any particulates cleaned from the at least one surface are cleaned in a direction of the spray.

Claim 7 (original): The method according to claim 1, wherein the step of spraying a liquid includes spraying a liquid at an oblique angle relative to the at least one surface of an object to be cleaned.

Claim 8 (original): The method according to claim 1, wherein the step of spraying a liquid spray includes spraying a liquid which is de-ionized water.

Claim 9 (previously presented): The method according to claim 1, wherein the step of insonifying the liquid includes producing an acoustical wave imparted onto the surface of the one or more objects being cleaned in a directions away from the focusing acoustic transducer.

Claim 10 (currently amended): The method according to claim 1, wherein the ~~step of moving the object includes moving the object to be cleaned using a conveyor belt~~ comprises at least one spacer between the first belt and the second belt to maintain a predefined separation distance between the belts.

Claim 11 (previously presented): The method according to claim 1, wherein the step of spraying a liquid includes spraying a liquid onto at least one surface of at least one object which is made from ceramic.

Claim 12 (original): The method according to claim 10, wherein the step of spraying a liquid includes spraying a liquid onto at least one surface of at least one object which is made from alumina/TiC.

Claim 13 (previously presented): The method according to claim 1, wherein the step of spraying a liquid includes spraying a liquid onto at least one surface of at least one

object which is a hard disk drive head.

Claim 14 (cancelled)

Claim 15 (currently amended): An apparatus for cleaning objects using insonified liquids, the apparatus comprising:

a carrier that moves one or more objects along a processing assembly line for cleaning ~~at least one surface of the objects, the carrier comprising at least two belts,~~ wherein each object includes a front surface, a back surface, a first lateral edge and a second lateral edge, so that a first of the two belts is in frictional contact with a portion of the front surface of the object and a second of the two belts is in frictional contact with a portion of the back surface of the object while simultaneously exposing at least a portion of the first lateral edge and the second lateral edge for cleaning; and

a focusing acoustic transducer with at least one jet for spraying a liquid onto the surface at least one of the lateral edges of the objects to be cleaned, wherein the liquid is insonified while it is being sprayed and the focusing acoustic transducer provides an acoustic power divided by an area (acoustic power/area) that is a function of an amount of electric power applied to the focusing acoustic transducer at a given frequency to result in the liquid with an insonified power density of at least 5 kW/cm<sup>2</sup> without substantial cavitation occurring on ~~a surface~~ the at least one lateral edge of an the object being cleaned.

Claim 16 (cancelled)

Claim 17 (previously presented): The apparatus for cleaning objects according to claim 15, wherein the focusing acoustic transducer is operated at a frequency greater than or equal to 1 MHz.

Claim 18 (cancelled)

Claim 19 (original): The apparatus for cleaning objects according to claim 15, wherein the object is made from ceramic.

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Claim 20 (original): The apparatus for cleaning objects according to claim 15, wherein the object is made from alumina/TiC.

Claim 21 (original): The apparatus for cleaning objects according to claim 15, wherein the object is a hard disk drive head (HDDH).

Claim 22 (original): The apparatus for cleaning objects according to claim 15, wherein the object is a hard disk drive head (HDDH) with a plurality of lateral edges surfaces, and wherein the carrier is configured to be rotatable so at least four lateral edges surfaces are cleaned by the liquid being sprayed from the jet.

Claim 23 (cancelled)

Claim 24 (currently amended): The apparatus for cleaning objects according to claim 15, wherein the focusing acoustic transducer is rotatably mounted so as that to vary at least one of a longitudinal component and a shear wave component of an acoustic wave produced by the focusing acoustic transducer.

Claim 25 (currently amended): The apparatus for cleaning objects according to claim 15, wherein the focusing acoustic transducer is mounted on a robotic arm to permit a direction that the jet for spraying a liquid onto the surface of the one or more objects to be [[a]] adjusted relative to the surface of the one or more objects.

Claim 26 (cancelled)

Claim 27 (new): The apparatus for cleaning objects according to claim 15, further comprising:

at least one spacer provided between the first belt and the second belt, the spacer for maintaining a predefined separation distance between the belts.

Claim 28 (new): The apparatus for cleaning objects according to claim 15, further

comprising:

a plurality of spring-loaded rollers in physical communication with at least one of the first belt and the second belt, the rollers applying a displacing force to the at least one belt.

Claim 29 (new): The method according to claim 1, further comprising the step of placing the first and second belts in motion by applying force from a plurality of spring-loaded wheels.

Claim 30 (new): The method according to claim 1, further comprising:

moving the object in substantially the same relative direction as the spray so as that any particulates cleaned from the at least one surface are cleaned in a direction in which the object is moving.